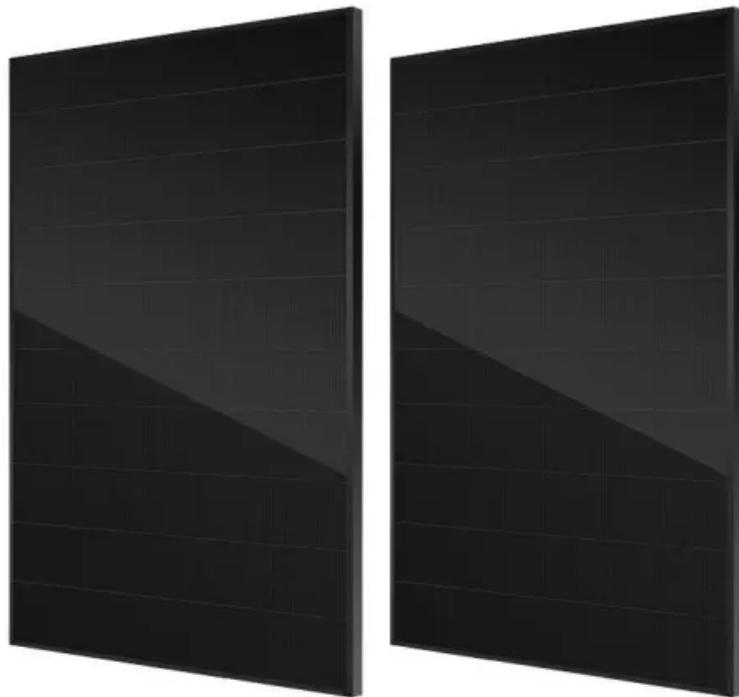


Kongres Container

High-frequency ring inverter



Overview

To increase the frequency of oscillation, two methods are commonly used. First, making the ring from a smaller number of inverters results in a higher frequency of oscillation, with about the same power consumption. Second, the supply voltage may be increased. Overview A ring oscillator is composed of a cascaded chain of inverters arranged in a ring, such that the output of the inverter at the end of the chain is fed back into the first inverter, which produces a.

Because a single inverter computes the logical NOT of its input, it can be shown that the last output of a chain of an odd number of inverters is the logical NOT of the first input. The final output is asserted a finite amount of time.

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